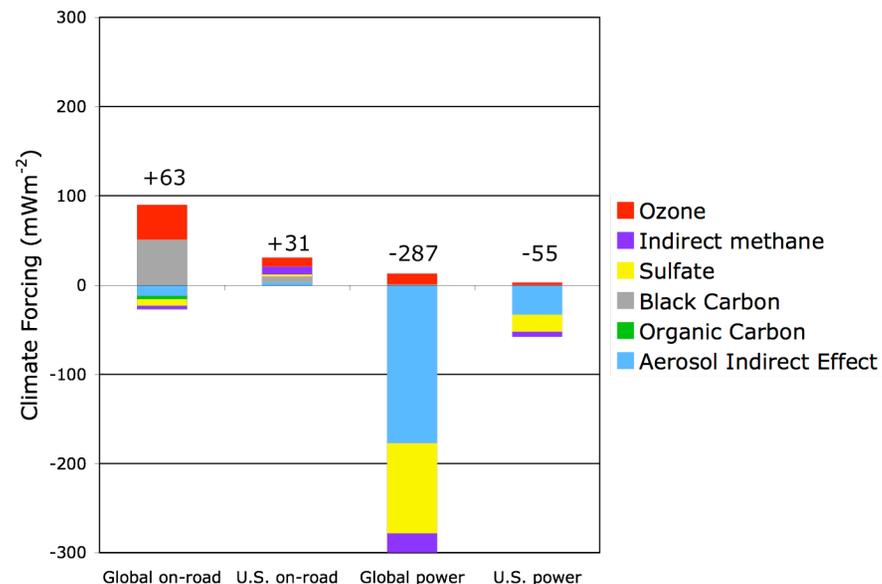
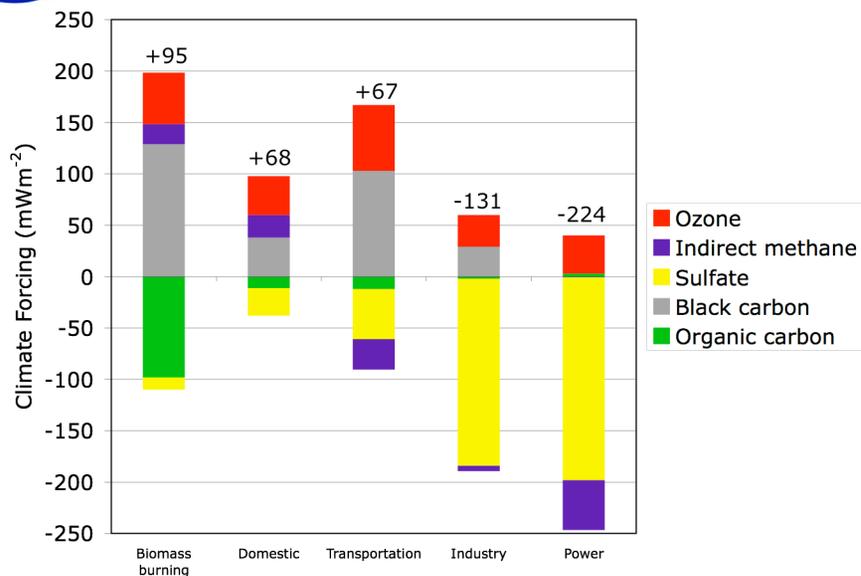


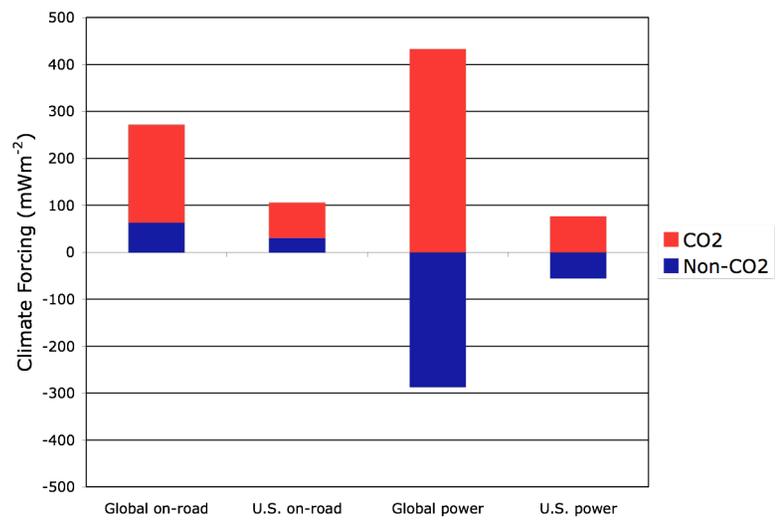


# AEROSOL AND OZONE CLIMATE FORCING BY ECONOMIC SECTOR



- Applied NASA GISS Atmospheric Composition-Climate Model
  - Fully interactive chemistry and aerosol in GISS ModelE GCM
  - [Shindell et al., ACP, 2006]
- Key target sectors to mitigate global warming (Large positive net non-CO<sub>2</sub> forcing)
  - Biomass burning, Transportation, Domestic biofuel
- Non-CO<sub>2</sub> climate forcing from transportation in the U.S. and worldwide enhances the CO<sub>2</sub> warming impact by > 30%
  - Immediate climate benefits from reducing transportation emissions

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Unger et al., *Air pollution radiative forcing from specific emissions sectors at 2030*, J. Geophys. Res., 2008

Unger et al., *Climate forcing and human health impacts of an electric vehicle fleet in the United States*, Atmos. Env. in review, 2008